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Crania of lower Animals

in the

U. S. Army Medical Museum

Quadrivana

1 Cast of Cranium of *Troglodytes gorilla*, No 644

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3 *Nycticejus crepuscularis*, Allen, No 1182,
4 *Lasiurus noveboracensis*, Torrey, No 1353,
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7 *Scotophilus carolinensis*, Geoff. No 1008.
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9 *Scotophilus georgianus*, Allen, No 1134.
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15 *Vespertilio lucifugus*, Le Conte, No 1208.
16 *Vespertilio Yumanensis*, Allen, No 996, 997.
17 *Vespertilio nitidus*, Allen, No 992.
18
19 *Synotus Townsendii*, Wagner, No 986.
20 *Antrozous pallidus*, Allen, No 981.

Exotic Chiroptera

I *Pterotus auritus*, Linné, No 727.
T *Vesperugo pipistrellus*, Daub, No 728.
V *Vesperugo noctula*, Daub, No 731.
V *Vesperugo discolor*, Natterer, No 729.

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11 Sorex personatus, Geoff. No 232.
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15 Blarina brevicauda, Gray. No 2142, 2143.
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American Quadripes

27 *Felis concolor*, Linne, No 178, 179, 828, 954
 28 *Felis onca*, Linne No 1412.

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32 *Lynx rufus*, Raf, No 952, 1059, 1160, 1383,
 33 *Lynx maculatus*, Aud. No 1396
 34 *Lynx fasciatus*, Raf. No 1080,
 35 *Lynx canadensis*, Raf, No 180
 36 *Canis occidentalis*, No 184, 185, 713, 714.
 37 *Canis latrans*, Say, No 186, 710, 711, 715,
 38 *Vulpes fulvus*, No 189, 190, 191, 192,
 39 *Vulpes macrourus*, Baird, No 1161,
 40 *Vulpes velox*, Audub, No 955.

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42 *Vulpes virginianus*, Rich. No 193, 184, 195, 196.
 43 *Vulpes littoralis*, Baird, No 1546.

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45 *Mustela pennantii*, Erx, No 198
 46 *Mustela americana*, Turton, No 197, 957

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50 *Putorius noveboracensis*, De Kay, 1058.
 51 *Putorius longicauda*, Rich., No 2088,

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American Quadriipes

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55. *Putorius vison*, Rich., No 199, 595, 1315, 1316.
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57. *Gulo luscus*, Sabine, No 200,
58. *Lutra canadensis*, No 201, 951.
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63. *Mephitis occidentalis*, Baird, No 825,
64. *Mephitis mephitis*, No 202, 704, 956, 1193.
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66. *Taxidea americana*, Waterh., No 203, 612, 834, 950.
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68. *Procyon lotor*, Stern, No 204, 613, 1060, 2077
69
70. *Ursus horribilis*, Ord, No 205, 672, 1006, 1043,
71. *Ursus americanus*, Pallas, No 206, 207, 208, 209, 210
72. *Ursus maritimus*, Linné, No 211,
73. *Didelphys virginianus*, Shaw, No 212, 213, 787, 945,
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75. *Sciurus vulpinus*, Gmelin, No 623, 624.
76. *Sciurus cinereus*, Linné, No 214, 215.
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81 *Sciurus castanonus*, Baird, No 975,82 *S.*83 *Sciurus hudsonicus*, Pallas, No 216,

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86 *Sciurus douglasii*, Bach, No 1550.

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90 *Pteromys oregonensis*, Bach, No 896,91 *Tamias striatus*, No 596, 2139,92 *Tamias quadrivittatus*, Rich, No 1361, 1667, 1687,

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95 *Spermophilus beecheyi*, Rich, No 1547, 1548.96 *Spermophilus douglasii*, Rich, No97 *Spermophilus grammurus*, Bach, No 974, 1398,

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99 *Spermophilus lateralis*, Rich, No 1549,

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101 *Spermophilus franklini*, Rich, No 2145, 2147, 2148, 2149102 *Spermophilus 13-lineatus*, Aud, No 1312, 1313, 1686,

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107 *Spermophilus richardsonii* No 1433.
108 *Spermophilus townsendii*, Bach, No 2126.
109 *Cynomys ludovicianus*, No 217, 218, 835, 903, 904.
110
111 *Arctomys monax*, Gmelin, No 219.
112 *Arctomys flaviventer*, Bach, No 1358.
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114 *Caster canadensis*, Kuhl, No 220, 221, 822, 794.
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116 *Geomys bursarius*, Rich, No 719, 2064, 2065,
117 *Geomys breviceps*, Baird, No 827.
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126 *Thomomys umbrinus*, No 1001, 1002, 1551.
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133 *Perognathus hispidus*, Baird, No 1705, 1706.

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135 *Cricetodipus flavus*, Baird, No 990.

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137 *Taculus hudsonius*, No 1326 1707, 2136, 2137138 *Mus decumanus*, Pallas, No 130, 222, 223, 552,

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140 *Mus tectorum*, Savi, No 984, 985,141 *Mus musculus*, Linne, No 225, 226, 227,

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145 *Reithrodon longicauda*, Baird, No 1574.146 *Hesperomys leucopus*, Wagner, No 597, 1328, 1573, 1708.

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159 *Hesperomys leucogaster*, — No 2138,
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161 *Neotoma floridana*, Say, No 224
162 *Neotoma mexicana*, Baird, No 983
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166 *Neotoma cinerea*, No 2111,
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168 *Sigmodon berlandieri*, Baird, No 967, 968, 969, 970
169 *Eothenys gapperi*, Vigors, No 2069, 2070, 2071, 2072,
170 *Arvicola riparia*, Ord, No 608, 1040, 1404, 2086,
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172 *Arvicola rufidorsum*, Baird, No 1710,
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181 *Arvicola austera*, Leconte, No 2133, 2134.
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188 *Fiber zibethicus*, Cuvier, № 228, 229, 230, 1194.
189 *Erethizon dorsatus*, Cuvier, № 978
190 *E. rethizon epixanthus*, Brandt, № 231, 1680,
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192 *Lepus americanus*, Erx, № 239
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194 *Lepus campestris*, Bach, № 1669, 1670,
195 *Lepus callotis*, Wagler, № 237, 797, 1238, 1360,
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197 *Lepus sylvaticus*, Bach, № 240, 241, 242, 243,
198 *Lepus artemisia*, Bach, № 972, 987, 988, 989,
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201 *Lepus trowbridgii*, Baird, № 2094.
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203 *Lepus palustris*, Bach, № 238,
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206 *Dicotyles torquatus*, Cuvier, № 244.
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210 *Cervus canadensis*, Erxle, No 247, 1022, 1077, 1525,
211 *Cervus virginianus*, Doddard, No 249, 250, 251, 622, 635,
212 *Cervus leucurus*, Douglass, No 833, 1395,
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214 *Cervus macrotis*, Say, No 248, 1394,
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216 *Antilocapra americana*, Ord, No 252, 253, 632, 633, 680,
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218 *Ovis montana*, Cuvier, No 671, 1049, 1422,
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220 *Bos americanus*, Gmelin, No 832, 959,

I *Sorex araneus*, Schreber, № 733,
T *Talpa europaea*, Linné, № 734, 735;
V *Felis domesticus*, Linné, № 95, 181, 182, 183,
V *Canis familiaris*, Linné, № 29, 35, 181, 188, 739,
V *Mustela marten*, Briss, № 723,
V *Feotorius putorius*, Linné, № 724,
V *Feotorius vulgaris*, Briss, № 730,
X *Erinaceus europaeus*, Linné, № 725,
X *Lutra vulgaris*, Linné, № 740,
X *Feotorius erminea*, Linné, № 732,
X *Meles taxus*, Schreber, № 736
X *Arvicola amphibius*, Linné, № 726,
XV *Lepus timidus*, Linné, № 737,
XV *Lepus cuniculus*, Linné, № 234, 235, 236, 1023,
XV *Equus caballus*, Linné, № 34,
XV *Sus scrofa*, Linné, № 47, 52, 245, 246,
XV *Capella rupicapra*, Linné, № 738,
XV *Capra hircus*, Linné, 254, 255, 256,
XV *Ovis aries*, Linné, 257, 619, 620
X *Bos taurus*, Linné, № 50,
X *Cavia cobaya*, Linné, № 869, 870, 908, 909,
X *Phacochoerus aeliani*, — № 1309,
XV *Macacus cynomolgus*, — № 1382,
XV *Equus Asinus*, Linné, № 1408,

- 1 *Cistophora cristata*, No 260,
- 2 *Arctocephalus Gilliesii*, No 261,
- 3 *Delphinus delphis*, Linné, No 262.
- 4 *Trichecus rosmarus*, No 888,
- 5 *Phoca barbata*, Linné, No 258,
- 6 *Phoca vitulina*, Linné, No 259,
- 7 *Phoca Iubata*, Linné, No 1048,
- 8 *Delphinus clymene*, Gray. No 1148, 1266, 1267.
- 9 *Phocaena americana*, Agass. No 1554.

1 *Cathartes aura*, Illiger, No 709

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5 *Falco anatum*, Bonap. No 923,

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7 *Falco columbarius*, Linné, No 924. 269,

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12 *Falco islandicus*, Sabine, No 922,

13 *Falco sparverius*, Linné, No 1594. 2108,

14 *Astur atricapillus*, Bonap. No 265,

15 *Accipiter cooperii*, Bonap. No 266, 717.

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17 *Accipiter fuscus*, Bonap. 949, 12.94.

18 *Buteo swainsonii*, Bonap. No 1685,

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20 *Buteo calurus*, Cassin, No 1485,

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23 *Buteo borealis*, Vieill, No 263, 264, 716, 2082.

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25 *Buteo lineatus*, Sardine, No 267, 708,

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30 *Archibuteo lagopus*, Gray, No 936, 937, 938,

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38 *Circus hudsonicus*, Vieill, No 268, 921,39 *Aquila canadensis*, Cassin, No 891, 1197.40 *Haliaeetus pelagicus*, Siebold, No 892, 893,

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43 *Haliaeetus leucocephalus*, Savigny, No 836, 2107.

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47 *Strix (flammea, L.) praticola*, Bon. No 1351,48 *Bubo virginianus*, Bonaps, No 270, 837,49 *Scops asio*, Bonaps, No 274

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Baetiyotus cassini, Brewer, No 273, 788, 2091,

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54 *Syrnium nebulosum*, Gray, No 272,
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57 *Nyctale acadica*, Bonap, No 897
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61 *Nyctea nivea*, Gray, No 271,
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63 *Corvus carolinensis*, Kuhl, No 277.
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68 *Geococcyx californianus*, Baird, No 1466, 1738.
69 *Coccygus americanus*, Bonap, No 278, 279, 280,
70 *Coccygus erythrophthalmus* Bonap, No 281,
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74 *Picus villosus*, Linné, No 602, 1670,
75 *Picus harrisii*, Aud, No 1491.
76 *Picus pubescens*, Linné, No 282, 283, 2131,
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81 *Picus albolarvatus*, Baird, No 2121.

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85 *Sphyrapicus varius*, Baird, No 1329, 1336,

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90 *Hylatomus pileatus*, Baird, No 621, 718,

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94 *Melanerpes erythrocephalus*, Sw, No 284, 285, 1337.

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96 *Melanerpes torquatus*, Bonap, No 2116.97 *Colaptes auratus*, Sw, No 286, 287, 288, 289,98 *Colaptes mexicanus*, Sw, No 2079,

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101 *Trochilus colubris*, Linné, No 290,102 *Trochilus alexandri*, Muls. No 1456, 1457, 1458.103 *Selasphorus rufus*, Swain, No 1453, 1454.104 *Selasphorus platycercus*, Gould. No 1449, 1450, 1451.

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112 *Sittiparus variabilis*, Gould, No. 1646;
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115 *Chordeiles virginianus*, Coues, No 1648, 1649, 1650,
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124 *Tyrannus carolinensis*, Baird, No 291, 292, 1340-41
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126 *Tyrannus verticalis*, Say, No 1642, 1643, 1644, 1645.
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135 *Sayornis fuscus*, Baird, No 2128,

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138 *Contopus richardsonii*, Baird, No 1508.139 *Contopus virens*, Cab, No 293

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148 *Turdus mustelinus*, Gmelin, No 296, 297, 298,

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150 *Turdus nanus*, Audubon, No. 303151 *Turdus fuscescens*, Stevens, No 299, 300, 301, 302

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153 *Turdus Swainsonii*, Cab, No 304,

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155 *Turdus migratorius*, Linne, No 33, 56, 294, 295,

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158 *Sialia Sialis*, Baird, No 305, 306, 307;
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168 *Parula americana*, Bonap. No 309, 310,
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170 *Geothlypis trichas*, Cab, No 311, 312, 313, 314,
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173 *Geothlypis macgillivrayi*, Baird, No 1431,
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176 *Icteria viridis*, Bonap. No 393,
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185 *Helminthophaga peregrina*, Cab, No 1349,

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189 *Dendroica virens*, Baird, No 316,

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193 *Dendroica canadensis*, Baird, No 315,

194 *Dendroica coronata*, Gray, No 325, 326,

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196 *Dendroica blackburnii*, Baird, No 327,

197 *Dendroica castanea*, Baird, No 317, 318,

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200 *Dendroica pennsylvanica*, Baird, No 319, 320,

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202 *Dendroica striata*, Baird, No 323, 324,

203 *Dendroica aestiva*, Baird, No 321, 322, 1330, 1332,

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210 *Dendroica discolor*, Baird, No 328,
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217 *Setophaga ruticilla*, Swains, No 329, 330, 331, 332,
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220 *Pyrrhula rubra*, Vieill, No 308,
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222 *Pyrrhula hepatica*, Swains, No 1497.
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225 *Hirundo horreorum*, Barton, No 1499,
226 *Hirundo lunifrons*, No 333, 334,
227 *Hirundo bicolor*, Vieill, No 335, 551, 1013, 1014.
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229 *Cotyle riparia*, Boie, No 1629.
230 *Cotyle serripennis*, Bonap. No 1514.
231 *Progne purpurea*, Boie, No 1621, 1622, 1623,
232 *Progne subis*, No 2115,
233 *Ampelis cedrorum*, Baird, No 32, 62, 65, 336,
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240 *Vireo olivaceus*, Vieill., No 337, 338, 339,
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253 *Mimus polyglottus*, Boie, No 340, 341,
254 *Mimus carolinensis*, Gray, No 342, 343, 344, 345,
255 *Harporhynchus redivivus*, Cab., No 1567
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261 *Harporhynchus rufus*, Cab, No 346, 347.
262 *Campylorhynchus brunneicapillus*, Gray, No 1516.
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268 *Cistothorus palustris*, Cab, No 348.
269 *Cistothorus stellaris*, Cab, No 1348
270 *Troglodytes aedon*, Vieill, No 349.
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277 *Sitta carolinensis*, Gmelin, No 350, 351.
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279 *Sitta canadensis*, Linné, No, 352, 353.
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282 *Poliostila caerulea*, Sclat, No 355, 356.
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285 *Lophophanes bicolor*, Bonap, No 354.
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287 *Lophophanes inornatus*, Cassin, No 1495.

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290 *Parus atricapillus*, Linné, No 357, 358

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293 *Parus carolinensis*, Andé, No 1371, 1372, 1373, 1374.

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302 *Eremophila cornuta*, Boie, No 359, 913, 914.

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305 *Carpodacus purpureus*, Gray, No 382, 1375,

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307 *Carpodacus cassinii*, Baird, No 2095,

308 *Carpodacus frontalis*, Gray, No 1501,

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313 *Chrysomitris tristis*, Bonap. No 315, 376, 1376,
314 *Chrysomitris psaltria*, Bonap. No 1493.
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318 *Curvirostra americana*, Wilson, No 374.
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330 *Plectrophanes maccowii*, Lavor, No 1683,
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332 *Passerulus savanna*, Bonap. No 383, 384, 385;
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337 *Pooecetes gramineus*, Baird, No 1663, 1664, 1665,
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344 *Chondestes grammacus*, Bon., No 2112,
345 *Zonotrichia leucophrys*, Sw., No 2117
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349 *Zonotrichia albicollis*, Bonaps., No 371, 372, 373, 1374
350 *Junco cinereus*, Cab., No 1518.
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354 *Junco hyemalis*, Sclat., No 386, 387, 388, 389.
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357 *Spizella monticola*, Baird, No 390, 1378.
358 *Spizella pusilla*, Bonaps., No 380, 1447
359 *Spizella socialis*, Bonaps., No 381,
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361 *Spizella breweri*, Cassin, No 1503, 1504.
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363 *Melospiza melodia*, Baird, No 392, 1379,
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367 *Melospiza fallax*, Baird, No 976.
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369 *Melospiza palustris*, Baird, No 369, 370.
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374 *Passerella iliaca*, Swain, No 368
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377 *Calomospiza bicolor*, Bonap. No 1486, 1610.
378 *Euphiza americana*, Bonap. No 367, 1636, 1637, 1638.
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380 *Guiraca ludovicianae*, Swains, No 1345.
381 *Guiraca melanocephala*, Swains, No 2110.
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387 *Cyanospiza cyanea*, Baird, No 391.
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390 *Cardinalis virginianus*, Bonap. No 40, 360, 361, 362.

391 *Pipilo erythrophthalmus*, Vieill., No 363, 364, 365, 366,
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397 *Pipilo mesoleucus*, Baird, No 1489,
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399 *Dolichonyx oryzivorus*, Swain, No 37, 79, 394, 395,
400 *Molothrus pecoris*, Swain, No 396,
401 *Agelaius phoeniceus*, Vieill., No 70, 397, 398, 399,
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406 *Sturnella magna*, Swain, No 400, 401, 402,
407 *Sturnella neglecta*, Aud. No 1613, 1614, 1615.
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415 *Icterus baltimore*, Daudin, No 403, 1627,
416 *Icterus bullockii*, Bonap. No 1472, 1520, 2118,

417 *Scolecophagus ferrugineus*, Swain, No 404, 405, 406,
418 *Scolecophagus cyanocephalus*, Cab, No 939,
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421 *Quiscalus versicolor*, Vieill, No 39, 407, 408, 409,
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423 *Corvus carnivorus*, Bartram, No 410, 707, 927, 1568,
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425 *Corvus cryptoleucus*, Couch, No 411,
426 *Corvus americanus*, Audubon, No 412, 413, 838
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429 *Corvus ossifragus*, Wilson, No 414.
430 *Picicorvus columbianus*, No 926, 979, 1391,
431 *Gymnoritta cyanocephala*, Maxim, No 971,
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434 *Cyanura cristata*, Swains, No 415, 416, 417, 418,
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443 *Perisoreus canadensis*, Bonap. No 419.

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445 *Columba fasciata*, Say. No 1490

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448 *Ectopistes migratoria*, Swains. No 424.

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451 *Zenaidura carolinensis*, Bonap. No 425, 426, 427, 428.

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457 *Meleagris gallopavo*, Linne, 429, 430.

458 *Meleagris Mexicana*, Gould, 965, 966, 1446.

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460 *Tetrao canadensis*, Linne, No 435, 1677, 1678, 1679.

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462 *Centrocercus urophasianus*, Swains. No 1426, 1672, 1673, 1674.

463 *Pediocetes phasianellus*, Baird, No 436, 1429.

464 *Cupidonia cupido*, Baird, No 437, 438, 439.

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467 *Lagopus albus*, Audub. No 940.

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471 *Ortyx virginianus*, Bonap. No 31, 77, 78, 440,
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473 *Creortyx pictus*, Baird, No 925,
474 *Lophortyx californicus*, No 973,
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477 *Cyrtonyx massena*, Gould, No 1392,
478 *Gruus americanus*, Ord, No 441, 2076,
479 *Gruus canadensis*, Temm. No 1675, 2098,
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484 *Demigretta ludoviciana*, Baird, No 442.
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487 *Ardea Herodias*, Linné, No 1012,
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493 *Butorides virescens*, Bonap. 443, 444, 445,
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495 *Nycteredea gardeni*, Baird, No 446,
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499 *Ibis alba*, Vieill, No 447, 1162,
500 *Ibis ordii*, Bonap, No 448,
501 *Platalea ajaja*, Linné, No 1016, 1163,
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503 *Charadrius virginicus*, Bork, No 868, 920,
504 *Aegialitis vociferus*, Cassin, No 606, 607, 991,
505 *Aegialitis montanus*, Cassin, No 1681, 1682, 1683,
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517 *Picruvirostra americana*, Gm. No 1598, 1599, 1676, 2100,
518 *Himantopus nigricollis*, Vieill, No 2099,
519 *Steganopus Wilsonii*, Coues, No 1435, 1436,
520 *Phalaropus hyperboreus*, Temm, No 2122, 2123,

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522 *Philohela minor*, Gray, No 449,
523 *Gallinago wilsonii*, Bonap. No 450, 898, 1291,
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529 *Tringa bairdii*, Coues, No 1626,
530 *Tringa americana*, Cassin, No 451, 1653,
531 *Tringa maculata*, Vieill, No 1343,
532 *Tringa bonapartei*, Coues, No 1631, 1632, 1633, 1634.
533 *Tringa minutilla*, Vieill, No 1617, 1618, 1619,
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537 *Tetanus semipalmaria*, Bonap. No 1607, 1608, 1609, 2096.
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540 *Crambetta flavipes*, Bonap. No 452,
541 *Rhyacophilus solitarius*, Bonap. No 453,
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543 *Tringoides macularius*, Gray, No 454, 455,
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545 *Actitis bartramius*, Bonap. No 1659, 1660,
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547 *T. imosa fedosa*, Ord, No 456, 1698,
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549 *Numenius longirostris*, Wilson, No 458, 459, 1079
550 *Numenius hudsonicus*, Latham, No 457,
551 *Numenius borealis*, Latham, No 928, 929,
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554 *Rallus virginianus*, Linné, No 977,
555 *Porzana carolina*, Vieill, No 460, 461,
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559 *Fulica americana*, Gmelin, No 462, 463, 464.
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561 *Cygnus americanus*, Sharpe, No 465, 901, 902,
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563 *Anser hyperboreus*, Pallas, No 930
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567 *Bernicla canadensis*, Boie, No 470, 471, 472, 1127.
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569 *Bernicla hutchinsi*, Bonap, No 931, 932, 933,
570 *Bernicla brenta*, Steph, No 473, 474.
571 *Bernicla nigricans*, Cassin, No 941,
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576 *Anas boschas*, Linne, No 477, 478, 889.
577 *Anas obscura*, Gmelin, No 479.
578 *Dafila acuta*, Temm., No 480, 481.
579 *Nettion carolinensis*, Baird, 482, 483.
580
581 *Querquedula discors*, Stejn., No 934.
582 *Querquedula cyanoptera*, Baird, No 1668, 2106, 2119.
583 *Spatula clypeata*, Boie, No 484, 485, 942, 943.
584 *Chalelesmus streperus*, Gray, No 1691, 1692, 1693, 1694.
585 *Mareca americana*, Stephens, No 486, 487, 488, 935;
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587 *Aix sponsa*, Boie, No 489, 490, 491.
588 *Fulix marila*, Baird, No 492.
589 *Fulix affinis*, Baird, No 493, 494, 495.
590 *Fulix collaris*, Baird, No 496, 497, 498.
591 *Aythya americana*, Bonap., No 499, 500, 946, 947.
592 *Aythya vallisneria*, Bonap., No 501, 502, 503, 504.
593 *Bucephala americana*, Bonap., No 505, 506, 507, 508.
594 *Bucephala islandica*, Baird, No 1695, 1696.
595 *Bucephala albeola*, Baird, No 509, 510, 511, 512.
596 *Histrionicus torquatus*, Bonap., No 513.
597 *Harelda glacialis*, Leach, No 514, 515, 918.
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601 *Melanetta velutina*, Baird, No 628, 1132,
602 *Pelonetta perspicillata*, Kaup, No 894.
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608 *Somateria spectabilis*, Leach, No 917,
609 *Frismatura rubida*, Bonap. No 516, 517,
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611 *Mergus americanus*, Cassin, No 614, 840,
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613 *Lophodytes cucullatus*, Reich, No 518, 519,
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615 *Pelecanus erythrorhynchus*, Gmelin, No 520, 1076, ²⁰⁹² 1689,
616 *Pelecanus fuscus*, Linné, No 895, 1037,
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620 *Graculus carbo*, Gray, No 521,
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623 *Graculus dilophus*, Gray, No 1699, 1700,
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628 *Plotus anhinga*, Linne, No 522,
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630 *Diomedea exulans*, Linne, No 523
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646 *Fregetta lawrencii*, Bonap. No 524,
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655 *Stercorarius cephatus*, Brünn, No 916,

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657 *Larus glaucescens*, Licht, No 900,

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661 *Larus argentatus*, Brünn, No 1055, 1657,

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670 *Chroicocephalus philadelphicus*, Linn, No 525, 899,

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691 *Sterna forsterii*, Nutt, No 1602, 1603, 1604, 2114.
692 *Sterna hirundo*, Coues, No 1702.
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695 *Hydrochelidon fissipes*, Coues, No 1655, 2105.
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698 *Colymbus torquatus*, Brünn, No 611.
699 *Colymbus arcticus*, Linné, No 944.
700 *Colymbus pacificus*, Lawr, No 526.
701 *Colymbus septentrionalis*, Linné, No 527.
702 *Podiceps griseigena*, Gray, No 919

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704 *Podiceps occidentalis*, Lawr. No 2109.

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706 *Podiceps cornutus*, Latham, No 1121,

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709 *Pedylimus podiceps*, Lawr, No 720,

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252-6 *Vireo vicinior*, No 1460.
429-6 *Corvus corax*, Linne, No 1467.
535-6 *Ereunetes pusillus*, No 1481.
362-6 *Spizella arizonae*, No 1488.
107-6 *Panaytela oaxitilis*, No 1500.
223-6 *Pyrrhula cooperii* No. 1510.
- *Hedymeles melanoccephalus*, No 1511.

I *Psittacus erythacus*, Linné, No 275,
T *Chrysotis flavifrons*, Herman, No 276,
V *Serina canaria*, Linné, No 377, 378, 379, 1010,
V *Columba domestica*, Linné, No 420, 421, 422, 423,
V *Pavo cristatus*, Linné No 586,
V *Numida meleagris*, Linné, No 434,
V *Gallus communis*, Linné, No 38, 431, 432, 433,
X *Anser domesticus*, Linné, No 466, 467, 468, 469.
X *Anas domesticus*, Linné, No 97, 98, 475, 476,

Crania of American Cheloniae

1 *Cistudo carolina*, Edwards, No 536, 537.

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6 *Ptychemys rugosus*, Agas, No 652, 653, 654, 655,

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10 ✓ *Chrysemys picta*, Agas, No 534, 535;

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12 *Emys leucosticta*, Schlegel, No 532

13 *Trachemys scabra*, Agas, No 533,

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21 ✓ *Cinosternum pennsylvanicum*, Bell, No 666, 667, 668, 669

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23 ✓ *Chelydra serpentina*, Swig. No 531, 843, 844.

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25 *Chelone caretta*, Holb, No 528, 529, 577, 675, 1919.

26 *Chelone midas*, Linné, No, 530, 682, 789,

Crania of American Ophidia

1 ✓ *Crotalus durissus*, Linne, No 545, 615;
2 *Crotalus adamanteus*, Beauv, No, 1583.
3 ✓ *Crotalus atrox*, B & G, No 993, 1757.
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5 *Crotalus confluentus*, Say No 2043
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7 *Caudisoma miliaria*, Linne, No 1952, 1955,
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15 ✓ *Elaps tenere*, B & G, No, 1976.
16 ✓ *Elaps fulvius*, Schneider, No 1319, 1581.
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20 ✓ *Eutainia Faireyi*, B & G, No 995,
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22 ✓ *Eutainia infernalis*, B & G, No 1228
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26 ✓ *Eutainia sirtalis*, B & G, No 546, 2007.

27 ✓ *Eutenia dorsalis*, B. & G., No 1318,

28 ✓ *Eutenia ordinata*, B. & G., No 1533.

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31 ✓ *Eutenia vagrans*, B. & G., No 1528, 2026,

32 *Eutenia obscure*, Cope, No 1898

33 ✓ *Eutenia marciana*, B. & G., No 547, 1233, 2048.

34 ✓ *Nerodia sipedon*, B. & G., No 629, 1949.

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40 *Regina leberis*, Linné. No 2034.

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45 *Heterodon platyrhinos*, Latr., No 1954, 1957,

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49 *Heterodon simus* Holbr. No 1583,

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52 ✓ *Heterodon nasicus*, B. & G., No 1226, 2000

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54 ✓ *Pituophis melanoleucus* B&G, No 980, 2047.
55 ✓ *Pituophis melanellus*, B&G, No 1222,
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64 *Ophibolus boylii* B, G, No 2021.
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68 *Ophibolus Sayi* B&G, No 1090
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75 *Ophibolus gentilis*, B&G, No 1091,
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Crania of American Reptiles

79 Mastigophis flagelliformis, Catesb., No 1944.

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83 ✓ *Mastigophis flagigularis*, B & G, No 702,

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87 ✓ *Mastigophis testaceus*, Say, No 982, 2031,

88 *Chlorosoma vernalis*, B & G, No 1231, 548,

89 *Cyclophis aestivalis*, Linné, No 1975;

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102 ✓ *Celuta amoena*, B & G, No 859

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104 *Storeria dekayi*, Holbr., No 2053

1 *Boa constrictor*, Linné, No 542, 543, 544.

- 1 ✓ *Tropidolepsis undulatus*, Holb. No 88, 89, 539, 540,
- 2 ✓ *Cnemidophorus gularis*, Girard, No 91, 92, 541,
- 3 ✓ *Phrynosoma cornuta*, Holbr. No 538,
- 4 ✓ *Sceloporus collaris*, Holb., No 803, 1584, 1585,
- 5 ✓ *Plestiodon erythrocephalus*, Holb., No 876,
- 6 ✓ *Plestiodon guttatus*, Holb., No 998, 999,
- 7 ✓ *Holbrookia maculata*, Girard, No 1004, 1005,
- 8 ✓ *Plestiodon obsoletus*, Girard, No 1103,
- 9 ✓ *Plestiodon fasciatum*, Girard, No 1216, 1990, 2028,
- 10 ✓ *Plestiodon sex striatum*, No 1271, 1272, 1273, 1274,
- 11 ✓ *Sceloporus spinosus*, Gill, No 1442.
- 12 ✓ *Phrynosoma douglassii*, Girard, No 1443, 1913, 2020,
- 13 ✓ *Sceloporus consobrinus*, No 1540
- 14 ✓ *Cnemidophorus sexlineatus* Girard No 1542, 1543, 2004.
- 15 *Phrynosoma coronatum*, Blainv., No 1561,
- 16 *Phrynosoma platyrhinum*, Girard, No 1564, 1912,
- 17 *Phrynosoma modestum*, Girard, No 1566, 2032,
- 18 *Alligator mississippiensis*, Daud. No 1576, 1938,
- 19 *Cnemidophorus tesselatus*, Say, No 1717, to 1720
- 20 *Saurornalus ater*, Duméril, No 1753, 1921.
- 21 *Iguania rhinolopha*, Wiegmann, No 1900
- 22 *Phrynosoma blainvilliei*, Gray, No 1903.
- 23 *Anolis principals*, Holbr., No 1914, 2042,
- 24 *Opheosaurus ventralis*, Daudin, No 1915, 2049,
- 25 *Sceloporus wislizenii*, B & G. No 1930, 2015.
- 26 } *Sceloporus consobrinus*, B & G. No 1967,

27 *Uta stansburiana*, B & G, No 2035,
28 *Sceloporus poinsettii*, B & G, No 2040,

Crania of Batrachia

- 1 ✓ *Pseudotriton rubra*, Girard, No 549, 2005;
- 2 ✓ *Amblystoma mavortium*, Baird, No 964,
- 3 ✓ *Rana palustris*, Holbr. No 1104,
- 4 ✓ *Engystoma carolinense*, No 1265.
- 5 ✓ *Bufo frontosus*, No 1532.
- 6 ✓ *Bufo cognata*, Hall, No 1539.
- 7 ✓ *Bufo microcephalus*, No 1541.
- 8 *Menosoma allegheniensis*, Harlan, No 1935,
- 9 *Diemyctylus viridescens*, Raf, No 1993, 2003,
- 10 *Plethodon glutinosus*, Green, No 2019,
- 11 *Hyla versicolor*, Leconte No 2050
- 12 *Dermognathus fusca*, Raf, No 2052, 2054

- 1 ✓ *Perca flavescens*, Mitchel, No 568, 863,
- 2 ✓ *Proccus lineatus*, Gill, No 43,
- 3 ✓ *Morone americana*, Mitchel, No 558,
- 4 ✓ *Tautoga onitis*, Guenther, No 576.
- 5 ✓ *Centropristes nigricans*, Cuvier, No 575, 1835,
- 6 ✓ *Cynoscion regalis*, Storer, No 556,
- 7 ✓ *Gadus morrhua*, Linné, No 553,
- 8 ✓ *Belone longirostris*, Gill, No 562.
- 9 ✓ *Lepidosteus osseus*, Gill, No 565, 566,
- 10 ✓ *Salmo fontinalis*, Mitchel, No 571,
- 11 ✓ *Salmo confinis*, Gill, No 1288.
- 12 ✓ *Pomatomus saltatrix*, Gill, No 67, 1158, 555
- 13 ✓ *Alosa tyrennus*, Gill, No 570,
- 14 ✓ *Dorosoma cepedianum*, Gill, No 567.
- 15 ✓ *Pomalobus pseudo-harengus*, Gill, No 1070 - 1073,
- 16 ✓ *Esox reticulatus*, Storer, No 557,
- 17 ✓ *Esox estor*, Les, No 609,
- 18 *Carassius auratus* Gill, No 569,
- 19 *Semotilus pulchellus*, Gill, No 573,
- 20 *Semotilus rhaeticus*, Gill, No 866,
- 21 ✓ *Pagonias chromis*, Gill, No 120,
- 22 ✓ *Sciaenops ocellatus*, Gill, No 559
- 23 ✓ *Hippoglossus americanus*, No 152
- 24 ✓ *Hybognathus regius*, Gill, No 560
- 25 ✓ *Pimelodus nigricans*, Le Sueur, No 563, 564,
- 26 ✓ *Hylomyzon nigricans*, Agas, No 572,

Archos

27 ✓ *Sargus ovis*, Linné, No 574,
 28 *Calostomus teres*, Gill, No 662, 663, 664, 665,
 29 *Ceratichthys biguttatus*, Girard, No 588,
 30 *Moxostoma oblonga*, Gill, No 807,
 31 *Parephippus gigas*, Gill, No 850,
 32 *Hypssilepis cornutus*, Girard, No 864,
 33 *Lepomis auritus*, Gill, No 860
 34 ✓ *Liostomus xanthurus*, Lacepè, No 878, 886, 887.
 35 ✓ *Chirostoma notata*, Gill, No 882,
 36 ✓ *Cybium maculatum*, Cuvier, No 1092,
 37 ✓ *Anguilla bostoniensis*, Storer, No 1094, 1095,
 38 *Pseudoscarus guacamaia*, Guenther No 812, 846,
 39 ✓ *Eulamia Milbertii*, Gill, No 673, 1269
 40 ✓ *Eulamia obscura* — No 1172, 1262,
 41 ✓ *Galeocerdo tigrinus*, Gill, No 1052,
 42 ✓ *Pristis antiquorum*, Latr, No 1015, 1063, 1135,
 43 ✓ *Melanogramma aeglefinus*, Gill, No 554,
 44 ✓ *Scomber grec*, Mitchell, No 1100,
 45 ✓ *Fundulus heteroclitus*, Gill, No 1133,
 46 ✓ *Microsogon undulatus*, C. V. No 1147,
 47 ✓ *Umbrina alburnus*, C. V. No 1149, 1151,
 48 ✓ *Pomatis obesus*, Girard, No 1150,
 49 ✓ *Acipenser brevirostris*, Le Sueur, No 1152,
 50 ✓ *Platessa plana*, Storer, No 1153
 51 ✓ *Lophius americanus*, Cuvier, No 1156, 1157,
 52 ✓ *Mustelus canis*, De Kay, No 1164,

53 ✓ *Oreynus thunnina*, No 1169, 1170,
 54 ✓ *Eugomphodus littoralis*, No 1171,
 55 ✓ *Cynoscion carolinensis*, Baird, No 1190,
 56 ✓ *Pagrus agyrus*, ^{stenotomus} Cuvier, No 1202, 1203, 1204.
 57 *Trichiurus lepturus*, No 1711
 58 *Pomatus aureus*, Gill, No 1747
 59 ~~C~~ *Scarus radians*, Cuv. No 1748.
 60 *Halocentrum soga*, Blach. No 1750.
 61 *Hydrargyreus jugalis*, Val. No 1766
 62 *Pinelepterus bascii*, Lac, No 1770
 63 *Micropterus negricans* Cet V. No 1787
 64 *Esox americanus*, Lac, No 1790.
 65 *Micropterus salmoides*, Lac, No 1799.
 66 *Polyodon folium*, Lac, No 1808.
 67 *Glyptidodon saxatilis*, Linné, No 1813.
 68 *Pollachius carbonarius*, Linné, No 1832.
 69 *Synodus foetens*, Linné, No 1847
 70 *Catostomus longirostrum*, Les, No 1856
 71 *Acipenser oxyrinchus*, Mith, No 1864
 72 *Etrumens teres* (Dekay) Brevoort No 1866
 73 *Trichiurus lepturus*, Linné, No 1868, 1869.
 74 *Haemulon* No 1871.
 75 *Parephippus quadratus*, Gun, No 1876.
 76 *Opistognathus thriissa*, Gill, No 1879
 77 *Mugil cephalatus*, No 1880
 78 *Caranx hispida*. Linné No 1888

Crania of Fishes

79

Chilichthys turgidus, Mitch., No 1920,

✓ 1 Negro Male age 27 Cooified R. side

✓ 2 " " " " About 60 " R "

✓ 3 " " " " 45 " " "

✓ 4 White " " " " 65 " " "

✓ 5 Negro Female " 35 " R "

✓ 6 " " " " About 20 " L "

✓ 7 " Male " 40 Not -----

✓ 8 Peruvian " (C) " " 40 Coo. L "

✓ 9 Negro Male " " 35 " R

✓ 10 " Female " 60 " R

✓ 11 " Male " " 25 not —

✓ 12 " Female " 15 not

22330	22337	21001
22347	22329	21018
22332	22336	21022
22346	21016	21671
22354	21026	21675
22331	21009	21601
22355-	21039	21672 X
22335-	21035-	21565
22344	21008	21629
22386	20996	21600
22350	21011	21669
22342	21020	16773
22353	21017	22319
22359	21037	16767
22354	20999	21598
22334	21034	17476
22345	21030	21599
(22355-)	21018	21603
22352	21029	21672 X
22333	21038	
22341	21014	
22349	21028	
(22360)	21040	
22358	21015-	
22348	21023	
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J. L. Morrison
Peupé Arizona
Care Frank Cushing

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